

F04150 "25861360

5' TTC GTG AAG CAC TCC ATG GAG CAT GTG TCA ATG GCC TGT GTC CAC CTG GCT TCC 54
AAG ATA GAA GAG GCC CCA AGA CGC ATA CGG GAC GTC ATC AAT GTC TTT CAC CGC 108
CTT CGA CAG CTG AGA GAC AAA TAA TCG TTA TGT ACC TTC AGG TGT TAG AGT 162
171 180 189 198 199 207 216
GTG AGC GTA ACC AAC ACC TGG TCC AGA CCT CAT GGG TAG CCT CTG AGG GTA AGT
225 234 243 252 261 270
GAC TAA GAC TTC TCC TCT GCT GTC CAA GCG CTR TGG TGC AGG GAC AGC GGC ATC
279 288 297 306 315 324
TTC AGC CAA TCC AGT GCA GGC TCT CCA CCG AAG GCT GGC TCT AGA CTG GTG ACC
333 342 351 360 369 378
CCT TGT TGA AAT GGG ACA GTC GGC AGC GGC TCT GAT GAG CCC GAG AAG AGG CCT
387 396 405 414 423 432
GCC CTT GGG TGC GGA GTC TCC CTC CGC ACG ATG CTC CCA CGC GTC CAA CTT GCA
441 450 459 468 477 486
CCC AAG GGG CTT CCT CTT CCA AGT GGA CTC CTT CAA GGA AGC TGC AGC TCG

FIGURE 1A

GTC	AGC	AGA	GAA	GGG	GCC	TGC	CGC	CAG	CGC	CCT	GGA	GGA	AGA	GGA	AGA	GGA	ACC
495		504		513		522		531		540		540		540		540	
CAA	GAG	GAT	GGC	TTG	TCT	CCC	AGC	AGC	CAC	ACC	GGC	TTT	GTG	CTC	AGC	CAG	TTC
549		558		567		576		585		594		594		594		594	
ATT	TGA	GTT	TGC	ATG	TTT	CTC	TGC	ACT	ATG	GAT	TTT	GAG	CAT	TTA	GAT	TTC	TTT
603		612		621		630		639		648		648		648		648	
AAT	CAA	AAG	CGT	TTT	AGT	GAC	TCC	AGT	AGA	CAT	TTT	CTT	TCT	GAG	GCA	TCG	TGC
657		666		675		684		693		702		702		702		702	
TTT	GCA	TGA	GAG	CAG	GCC	AAG	GTT	GAG	GGG	AAA	AGT	AAA	GTG	AAA	GTC	GGT	TCT
711		720		729		738		747		756		756		756		756	
CTT	TCA	TAG	CAA	CAC	GTA	TIG	TCT	GAC	ATT	CAG	CCA	GCT	TTT	TTT	TCT	AAT	
765		774		783		792		801		810		810		810		810	
AAT	TTC	TGT	GCC	TTT	CTG	TCC	TGT	ATT	TAC	TGT	ATT	TAG	AAA	AAG	CAG	CTA	GAA
819		828		837		846		855		864		864		864		864	
TAT	TTC	TCC	ATT	AAC	TCT	TGA	GAT	TCA	CAG	GAC	TGT	CTA	GCT	CTG	AGT	CCT	AGC
873		882		891		900		909		918		918		918		918	
AAT	AGA	CTC	CTT	AGA	GGA	GGA	GTA	GTA	CGT	TTA	TTA	AGA	TTT	TCT	CTA	GAT	AAT
927		936		945		954		963		972		972		972		972	

FIGURE 1B

981	GGC AGA CCT GGG TTC CCG GGT GCA TTG CAG TTC CTG TGT TTG GCT	990	999	1008	1017	1026
1035	TCC AGG AAT TAC ATG AAC GAC AGC CTT CGC ACC GAC GTC TTC GTG CGG TGC CAG	1044	1053	1062	1071	1080
P	E S I A C	M N D	S L R	T D V	F V R	F Q
1089	CCA GAG AGC ATC GCC TGT GCC ATT TAT CTT GCT GCC CGG ACG CTG GAG ATC	1098	1107	1116	1125	1134
CCT TTG CCC AAT CGT CCC CAT TGG TTT CTT TTG TTT GGA GCA ACT GAA GAA GAA	P L P N R P H W F L	I A C	I Y L A A R T	L E	I	
1143	ATT CAG GAA ATC TGC TTA AAG ATC TTG CAG CTT TAT GCT CGG AAA AAG GTT GAT	1152	1161	1170	1179	1188
I Q E I C	L K I L Q L	Q L Y A R	G A T	E E	E E	
1197	CTC ACA CAC CTG GAG GGT GAA GTG GAA AAA AGA AAG CAC GCT ATC GAA GAG GCA	1206	1215	1224	1233	1242
L T H L E G	E V F K R	H A I	V K	V D	V	
1251	AAG GCC CAA GCC CGG CGC CTG TTG CCT GGG GGC ACA CAG GTG CTG GAT GGT ACC	1260	1269	1278	1287	1296
K A Q A R G	L L P G G	T Q V L	T Q V L	D G	G T	
1305	1314	1323	1332	1341	1350	

FIGURE 1C

FIGURE 1D

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1737	AAG TAC CCC CAG AAG CCA CAC AAG TCT CGG AGC CGG AGT TCT TCC CGT TCT CGA	1746	1755	1764	1773	1782
K	Y P Q K P H K S R S R S S R S R					
1791	AGC AGG TCA CGG GAG CGG GCG GAT AAT CCG GGA AAA TAC AAG AAA AGT CAT	1800	1809	1818	1827	1836
S R S R E R A D N P G K Y K K S H						
1845	TAC TAC AGA GAT CAG CGA CGA CGA GAG CGC CGC TCG AGG TCG TAT GAA CGC ACA GGC CGT	1854	1863	1872	1881	1890
Y Y R D Q R R E R S R S Y E R T G R						
1899	CGC TAT GAG CGG GAC CAC CCT GGG CAC AGC AGG CAT CGG AGG TGA GGG GTT	1908	1917	1926	1935	1944
R Y E R D H P G H S R H R R						
1953	GCA GTG ACT GGT GGC CGC AAG CCC TTC CCT GGG GAG TAC CTG ATG GCT GCC CTT	1962	1971	1980	1989	1998
2007	TGA CCC CCG GTG GCT GCC CTT TGA CCC CCG GGT GTG CTC TCA GCG CAA GTG GTC	2016	2025	2034	2043	2052
2061	CTA GAA CAG GAT TCT TTT TGG AAA TGT CTG ACT GGA CCT TGG TGG ATT TGG	2070	2079	2088	2097	2106
2115	AAA TGG AAC TGA GGG ACC GGT GAC ACG TGC TTC AGA CCG GTC TGG GGT GCG GCG	2124	2133	2142	2151	2160

FIGURE 1E

2169	2178	2187	2196	2205	2214
CAC ACC TGG GCC CGT GCA GGG CTC AGC TCG GCA GCA GCT CTG AGG GCA GCT CAA					
2223	2232	2241	2250	2259	2268
TGA AAA AGT GAA TGC ACA CGC CCT TGT TGG CGT GGC CTG GCA TGG CCT GGT GCT					
2277	2286	2295	2304	2313	2322
ATC GGC AGC CGC TCT CCA CCC GAC TGA TAC TCA ATT ACG TGA AGC CAA GAA					
2331	2340	2349	2358	2367	2376
AGA TGA TTT TTA GAA CCT TTG CCT ATA TTA GGT TGT ACT TAT GTA CAT ATT TTG					
2385	2394	2403	2412	2421	2430
CAG TGT TTC ACA GGA GAA AGT GGC CTT AAC TGC CCC TTA TTC TCT CTC CAC GTT					
2439	2448	2457	2466	2475	2484
GTA AAT AAA CAT GTG TTT AAT ACA AGT TAA AGC TAT GTA TGA AAA CTC AGA ACT					
2493	2502	2511	2520	2529	2538
TGA ATC CCG TCA GCT TAA AAC TTG TGT AGG GAA TCC TGA CTT TTA AAA TGT GAG					
2547	2556	2565	2574	2583	2592
GGT ATT TGG ATC TGT GTT GAA AGT CGT ATA TTT TTA TCT GTG CGG TGC TGA GTG					
2601	2610	2619	2628	2637	2646
CAG GCC ACC AGC TCC TAA ATA GAG GTT CCC TAT ATG CGC GTA TGA CAT GGT GAA					

FIGURE 1F

2655	2664	2673	2682	2691	2700
TAA	ACA	CAA	CTC	TCT	CCA
CTC	TCA	TTC	CTC	AGG	ACA
TCC	GAA	TCC	TCC	TCC	TCC
GCG	TGG	TGT	GCT	TGT	GAA
TGT	CTG	TGT	GCT	TGT	GAA
2709	2718	2727	2736	2745	2754
CTT	CCG	GGC	TCC	TTC	CCT
TCT	TCC	TCC	CCT	GCT	GTA
CTG	TGT	GCC	TCC	TCT	GCC
TGT	GGC	TGC	CCT	TCT	GAA
2763	2772	2781	2790	2799	2808
CTG	TGT	GCC	TCC	CCT	GCT
TGT	GCC	TCC	TTC	CCT	GTA
2817	2826	2835	2844	2853	2862
CTG	TGT	GCC	TCC	TCT	GCT
TGT	GCC	TCC	TCT	GCT	TGT
2871	2880	2889	2898	2907	2916
CAG	GAT	GAC	AGG	CTC	CTT
GAT	GAC	GAC	AGG	CTC	CTT
CAG	GAT	GAC	AGG	CTC	CTT
2925	2934	2943	2952	2961	2970
GAA	TGA	TTC	CAA	GGT	GCT
TGA	TTC	CAA	GGT	GCT	CCT
TGT	GGG	CGA	GAG	AGG	CAG
ATC	TGT	GGG	CGA	GAG	CAG
3033	3042	3051	3060	3069	3078
GGG	GTG	GCA	CCT	GCA	CAC
TGG	ACA	CAG	TTT	TGG	TGG
3087	3096	3105	3114	3123	3132
TGG	ACA	CAG	TTT	TGG	GGA
TGG	TGG	TTT	TGG	GGA	CTA
TGG	TGG	TTT	TGG	GGA	CCC
TGG	TGG	TTT	TGG	GGA	ACT
TGG	TGG	TTT	TGG	GGA	GGT
TGG	TGG	TTT	TGG	GGA	ACC
TGG	TGG	TTT	TGG	GGA	GTT

FIGURE 1G

"TGTAGCGT" 25341360

3141	3150	3159	3168	3177	3186
TGG ACT TAC TAG GGC AGT GGG ACA TAT AGG CCG GGG CTA GTG GGA TAA CGG GGA					
3195	3204	3213	3222	3231	3240
GTT ACG CCT GAT GAC TTT TTT GAT GGA ATC CTG CAT TAG ATA GCT GGT GGG ACC					
3249	3258	3267	3276	3285	3294
CCC CCC TCA GAA TTG GGG AAC TGA GGA GAC TCC AGG GAG GGT GTC CTT CCA GGG					
3303	3312	3321	3330	3339	3348
AGA GCA GCT ATG AGG GGC CCC CTA GCT TCC TGT GCC TGG AAG TAA GAG AAC CAG					
3357	3366	3375	3384	3393	3402
TAA AGG GCC ATA CAC ACC TGT ACC CAA GAG ACC GCT CTC CAT TTG CTT TCT TT					
3411	3420	3429	3438	3447	3456
TTT ACT AAA TAA TTG TAA ATT ATT ATG ACA TAA AGA ACC ATT TAA GGC CAA					
AAA AAA AA 3'					

FIGURE 1H

5' GCCT CCC TGT CCC CCG ACC CTC TTT TGA TGC CTC AGC AAG TGA AGA GGA GGA AGA
 10 19 28 37 46 55
 64 73 82 91 100 109
 AGA GGA GGA GGA GGA TGA AGA TGA AGA GGA GGA AGT GGC AGC TTG GAG GCT
 118 127 136 145 154 163
 GCC CCC AAG ATG GAG TCA GCT GGG AAC CTC CCA GCG GCC CCG CCC TTC CCC CCC
 172 181 190 199 208 217
 CAC TCA TCG AAA AAC CTG CTC ACA GCG CCG CCG AGC CAT GAG AGC CTT CCG
 226 235 244 253 262 271
 GAT GCT GCT CTA CTC AAA AAG CAC CTC GCT GAC ATT CCA CTG GAA GCT TTG GGG
 280 289 298 307 316 325
 GCG CCA CCG GGG CCG GCG GCG GGG CCT CGC ACA CCC CAA GAA CCA TCT TTC ACC
 334 343 352 361 370 379
 CCA GCA AGG GGG TGC GAC GCC ACA GGT GCC ATC CCC CTG TTG TCG TTT TGA CTC
 388 397 406 415 424 433
 CCC CCG GGG GCC ACC TCC ACC CCG GCT GGG TCT GCT AGG TGC TCT CAT GGC TGA
 442 451 460 469 478 487
 GGA TGG GGT GAG AGG GTC TCC ACC AGT GCC CTC TGG GCC CCC CAT GGA GGA AGA

FIGURE 2A

TGTGCG " 2582-1260

TGG	ACT	CAG	GTG	GAC	TCC	AAA	GTC	TCC	TCT	GGA	CCC	TGA	CTC	GGG	CCT	CCT	532	541
	496		505		514		523		532		541							
	550		559		568		577		586		595							
M	Y	S	A	Q	R	F	W	G	T	I	W	A	R	R	G	A	H	
L	A	P	P	D	A	S	I	L	I	S	N	V	C	S	I	G	D	
	604		613		622		631		640		649							
CAT	GTG	GCC	CAG	GAG	CTT	TTT	CAG	GGC	TCA	GAT	TTG	GGC	ATG	GCA	GGG	GAC		
H	V	A	Q	E	L	F	Q	G	S	D	L	G	M	A	E	E	A	
	658		667		676		685		694		703							
GAG	AGG	CCT	GGG	GAG	AAA	GCC	GGC	CAG	CAC	AGC	CCC	CTG	CGA	GAA	GAG	GCA		
E	R	P	G	E	K	A	G	Q	H	S	P	L	R	E	E	H	V	
	712		721		730		739		748		757							
ACC	TGC	GTA	CAG	AGC	ATC	TTG	GAC	GAA	TTC	CTT	CAA	ACG	TAT	GGC	AGC	CTC	ATA	
T	C	V	Q	S	I	L	D	E	F	L	Q	T	Y	G	S	L	I	
	766		775		784		793		802		811							
CCC	CTC	AGC	ACT	GAT	GAG	GTA	GTA	GAG	AAG	CTG	GAC	ATT	TTC	CAG	CAG	GAG		
P	L	S	T	D	E	V	V	E	K	L	E	D	I	F	Q	Q	E	
	820		829		838		847		856		865							

FIGURE 2B

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874	TTT	TCC	ACC	CCT	TCC	AGG	AAG	GGC	CTG	GTG	TTG	CAG	CTG	ATC	CAG	TCT	TAC	CAG
F	S	T	P	S	R	K	G	L	V	L	Q	L	I	Q	S	Y	Q	
928	CGG	ATG	CCA	GGC	AAT	GCC	ATG	GTG	AGG	GGC	TTC	CGA	GTG	GCT	TAT	AAG	CGG	CAC
R	M	P	G	N	A	M	V	R	G	F	R	V	A	Y	K	R	H	
982	GTG	CTG	ACC	ATG	GAT	GAC	TTG	GGG	ACC	TTG	TAT	GGA	CAG	AAC	TGG	CTC	AAT	GAC
V	L	T	M	D	D	L	G	T	L	Y	G	Q	N	W	L	N	D	
1036	CAG	GTG	ATG	AAC	ATG	TAT	GGA	GAC	CTG	GTG	ATG	GAC	ACA	GTC	CCT	GAA	AAG	GTG
Q	V	M	N	M	.Y	G	D	L	V	M	D	T	V	P	E	K	V	
1090	CAT	TTC	AAT	AGT	TTC	TTC	TAT	GAT	AAA	CTC	CGT	ACC	AAG	GGT	TAT	GAT	GGG	
H	F	F	N	S	F	F	Y	D	K	L	R	T	K	G	Y	D	G	
1144	GTG	AAA	AGG	TGG	ACC	AAA	AAC	GTG	GAC	ATC	TTC	AAT	AAG	GAG	CTA	CTG	CTA	ATC
V	K	R	W	T	K	N	V	D	I	F	N	K	E	L	L	L	I	
1198	CCC	ATC	CAC	CTG	GAG	GTG	CAT	TGG	TCC	CTC	ATC	TCT	GTT	GAT	GTG	AGG	CGA	CGC
P	I	H	L	E	V	H	W	S	L	I	S	V	D	V	R	R	R	

FIGURE 2C

1252	1261	1270	1279	1288	1297
ACC ATC ACC TAT TTT GAC TCG CAG CGT ACC CTA AAC CGC CGC TGC CCT AAG CAT					
T I T Y F D S Q R T L N R R C P K H					
1306	1315	1324	1333	1342	1351
ATT GCC AAG TAT CTA CAG GCA GAG GCG GTA AAG AAA GAC CGA CTG GAT TTC CAC					
I A K Y L Q A E V K D R L D F H					
1360	1369	1378	1387	1396	1405
CAG GGC TGG AAA GGT TAC TTC AAA ATG AAT GTG GCC AGG CAG AAT AAT GAC AGT					
Q G W K G Y F K M N V A R Q N N D S					
1414	1423	1432	1441	1450	1459
GAC TGT GGT GCT TTT GTG TTG CAG TAC TGC AAG CAT CTG GCC CTG TCT CAG CCA					
D C G A F V L Q Y C K H L A L S Q P					
1468	1477	1486	1495	1504	1513
TTC AGC TTC ACC CAG CAG GAC ATG CCC AAA CTT CGT CGG CAG ATC TAC AAG GAG					
F S F T Q Q D M P K L R R Q I Y K E					
1522	1531	1540	1549	1558	1567
CTG TGT CAC TGC AAA CTC ACT GTG TGA GCC TCG TAC CCC AGA CCC CAA GCC CAT					
L C H C K L T V					
1576	1585	1594	1603	1612	1621
AAA TGG GAA GGG AGA CAT GGG AGT CCC TTC CCA AGA AAC TCC AGT TCC TTT CCT					

FIGURE 2D

T G A C S O " E S S H G G D

1630	1639	1648	1657	1666	1675
CTC	TTG	CCT	CTT	CCC	ACT
CAC	TTC	CCT	TTC	TTC	TTC
TTG	CTG	TAT	TTT	TTC	TTC
GGT	GGC	TAC	AGA	AAA	GCC
TGG	CCT	GGG	TGG	AGC	AGT
AGT	GCT	GGG	GGT	GGG	CGG
TTT	TAT	ATA	TAT	ATA	TAT
ATA	TAA	TAT	AAA	TGC	CAC
1684	1693	1702	1711	1720	1729
GGT	GGC	TAC	AGA	AAA	GCC
TGG	CCT	GGG	TGG	AGC	AGT
AGT	GCT	GGG	GGT	GGG	CGG
TTT	TAT	ATA	TAT	ATA	TAT
ATA	TAA	TAT	AAA	TGC	CAC
1738	1747	1756	1765	1774	1783
GGT	GGC	TAC	AGA	AAA	GCC
TGG	CCT	GGG	TGG	AGC	AGT
AGT	GCT	GGG	GGT	GGG	CGG
TTT	TAT	ATA	TAT	ATA	TAT
ATA	TAA	TAT	AAA	TGC	CAC
1792	1801	1810	1819	1828	1837
GGT	GGC	TAC	AGA	AAA	GCC
TGG	CCT	GGG	TGG	AGC	AGT
AGT	GCT	GGG	GGT	GGG	CGG
TTT	TAT	ATA	TAT	ATA	TAT
ATA	TAA	TAT	AAA	TGC	CAC
1846	1855	1864	1873	1882	1891
GGT	GGC	TAC	AGA	AAA	GCC
TGG	CCT	GGG	TGG	AGC	AGT
AGT	GCT	GGG	GGT	GGG	CGG
TTT	TAT	ATA	TAT	ATA	TAT
ATA	TAA	TAT	AAA	TGC	CAC
1900	1909	1918	1927	1936	1945
GGT	GGC	TAC	AGA	AAA	GCC
TGG	CCT	GGG	TGG	AGC	AGT
AGT	GCT	GGG	GGT	GGG	CGG
TTT	TAT	ATA	TAT	ATA	TAT
ATA	TAA	TAT	AAA	TGC	CAC
1954	1963	1972	1981	1990	
GGT	CCT	GCT	GTG	GTC	AAT
TGG	CTG	GCT	TGA	TGA	GAT
AGT	CTG	GCT	TGT	TGT	C
TTT	TAT	ATA	TAT	ATA	3'
ATA	TAA	TAT	AAA	TGC	

FIGURE 2E

137	L E G A K K A D S P V N G L P K G R E S R S R S R E 1 M E G P K K A Q G H S P V N G L L K G Q E S R S Q S R S R E	1281694 GI 1276645
167 31	Q S Y S R S P S R S A S P K R R K S D S G S T S G G S K S Q Q S Y S R S P S R S A S P K R R K S D S G S T S G G S K S Q	1281694 GI 1276645
197 61	S R S R S R S D S P P R Q A P R S A P Y K G S E I R G S R K S R S R S R S D S P P R Q V H R G A P Y K G S E V R G S R K	1281694 GI 1276645
227 91	S K D C K Y - P Q K P H K S R S S R S R S R S R E R A S K D C K Y L T Q K P H K S R S R S S R S R S R E R T	1281694 GI 1276645
256 121	D N P G K Y K K K S H Y Y R D Q R R E R S R S Y E R T G R R D N S G K Y K K K S H Y Y R D Q R R E R S R S Y E R T G H R	1281694 GI 1276645
286 151	Y E R D H P G H S R H R R C D R I S G G C P W S L P V G H T Y E R D H P G H S R H R R	1281694 GI 1276645
298 181	1281694 GI 1276645	
	L A S V A L	

FIGURE 3